

FT/SQ396471US

FIG. 1 is a block diagram of a system architecture.

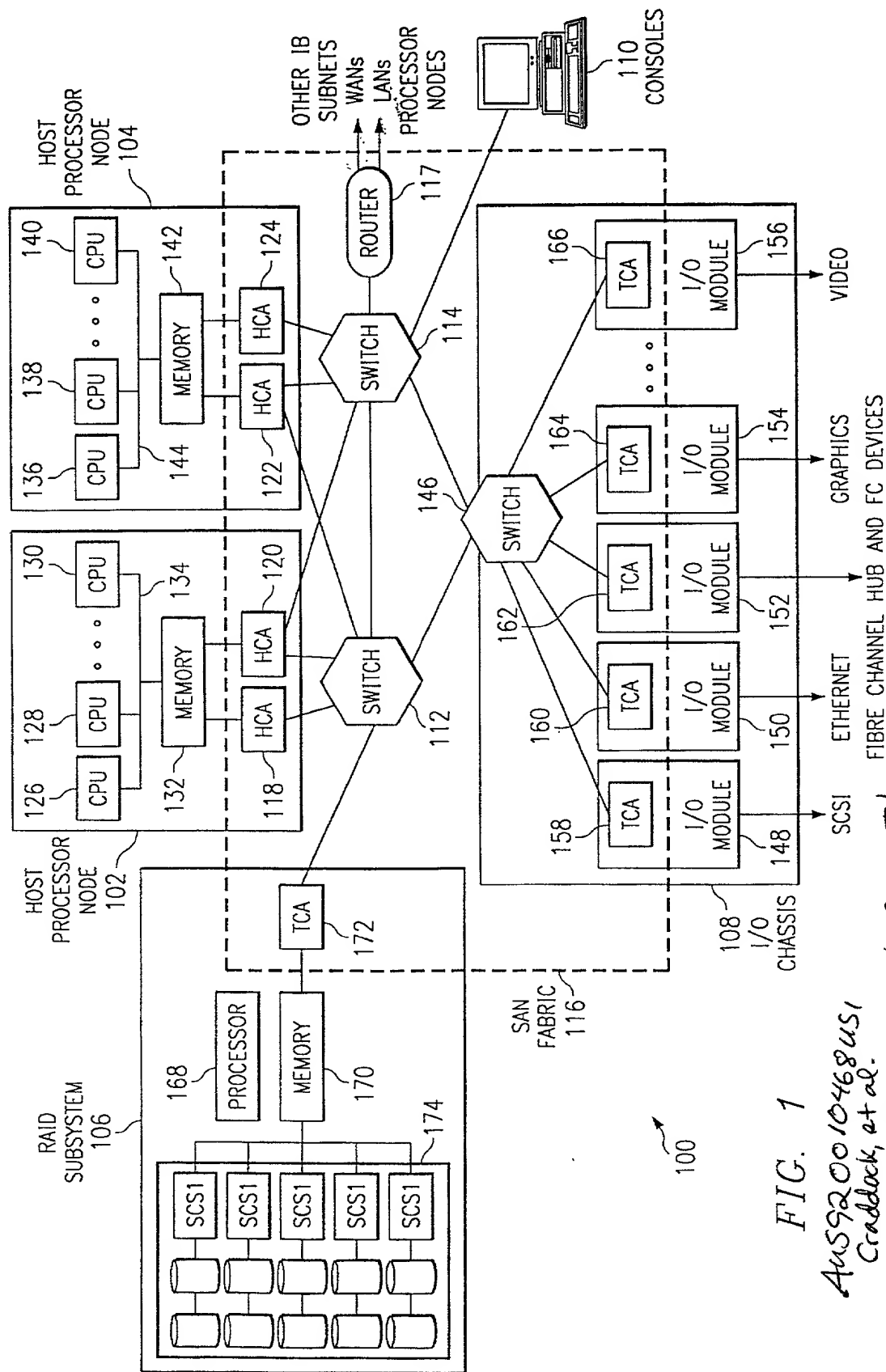
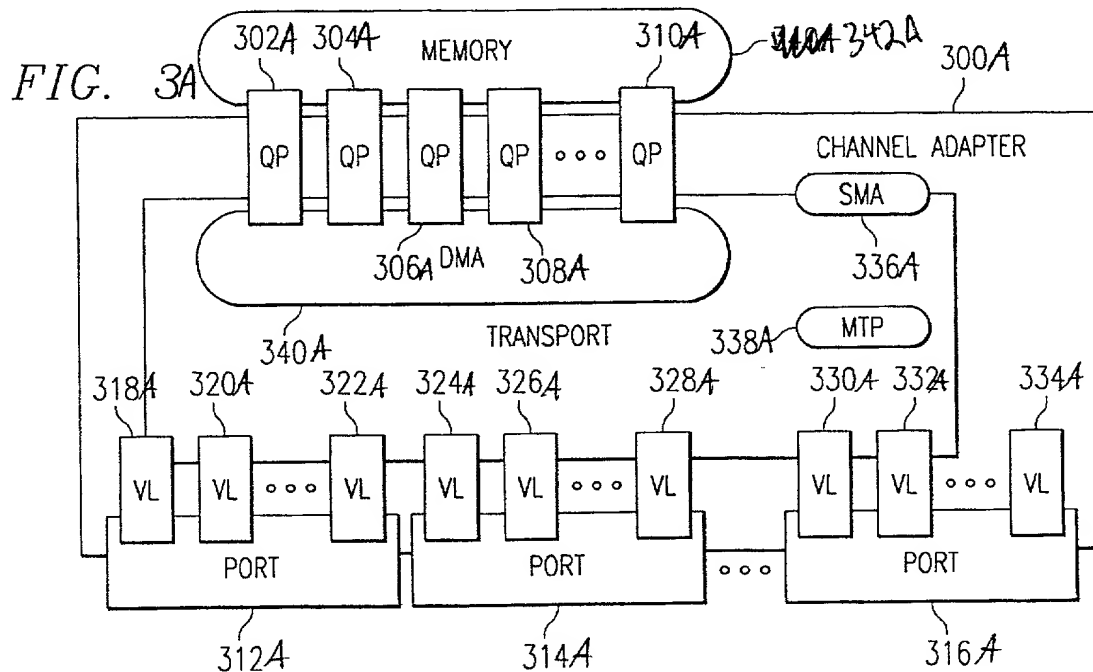
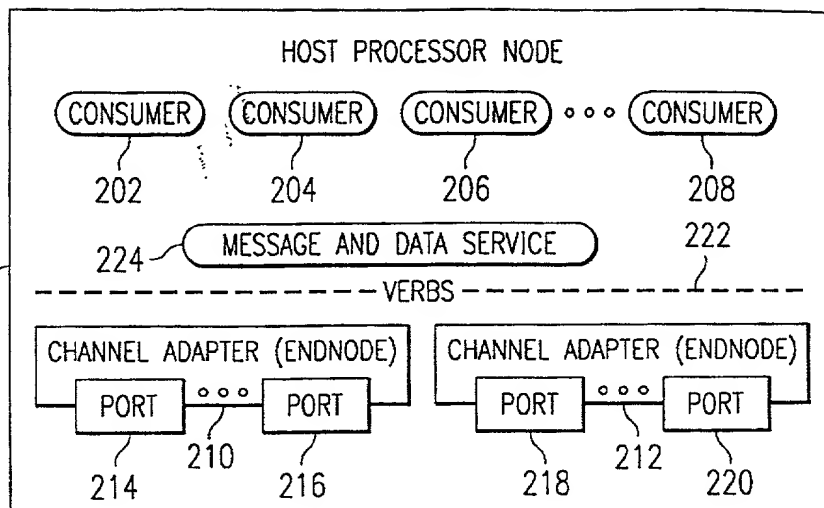


FIG. 1

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FIG. 2
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[illegible]

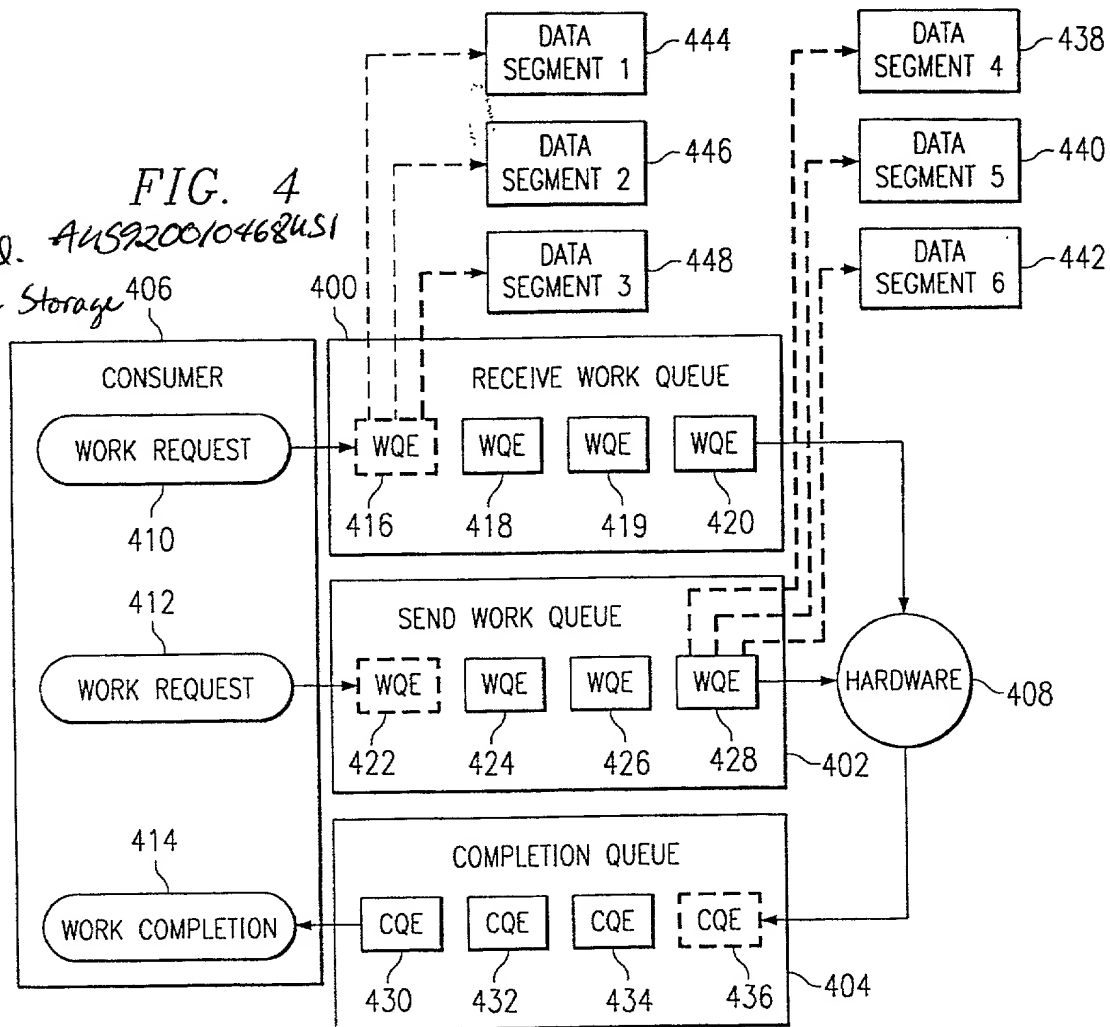
A block diagram of a packet relay system. At the top, a dark rectangular block is labeled "Switch". Below it is a larger white rectangular block labeled "Packet Relay". The "Packet Relay" block has three "Port" labels at the bottom, each corresponding to a set of three vertical rectangles. Each vertical rectangle is labeled "VL" at the top and contains a small circle with a dot in the center. Handwritten annotations include "AUS9200/0468USL" at the top left, "300B" with an arrow pointing to the "Switch" block, "302B" with an arrow pointing to the "Packet Relay" block, and "306B" with an arrow pointing to one of the "VL" blocks.

Fig. 3C

Diagram of a Router 300C. The router contains a GRH Packet Relay 302C and multiple Ports 304C. The ports are connected to a common bus 306C.

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FIG. 4



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FIG. 5
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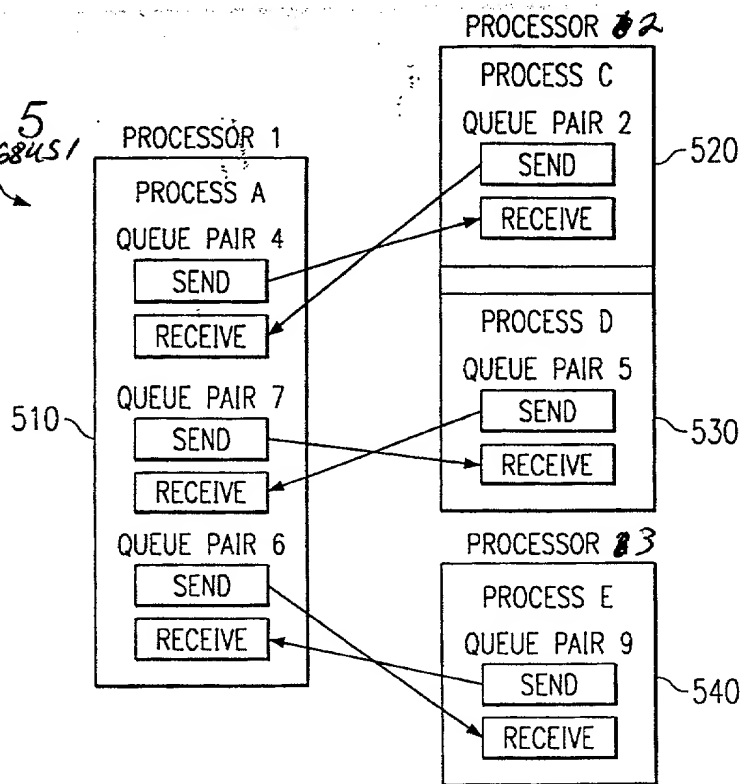


FIG. 6

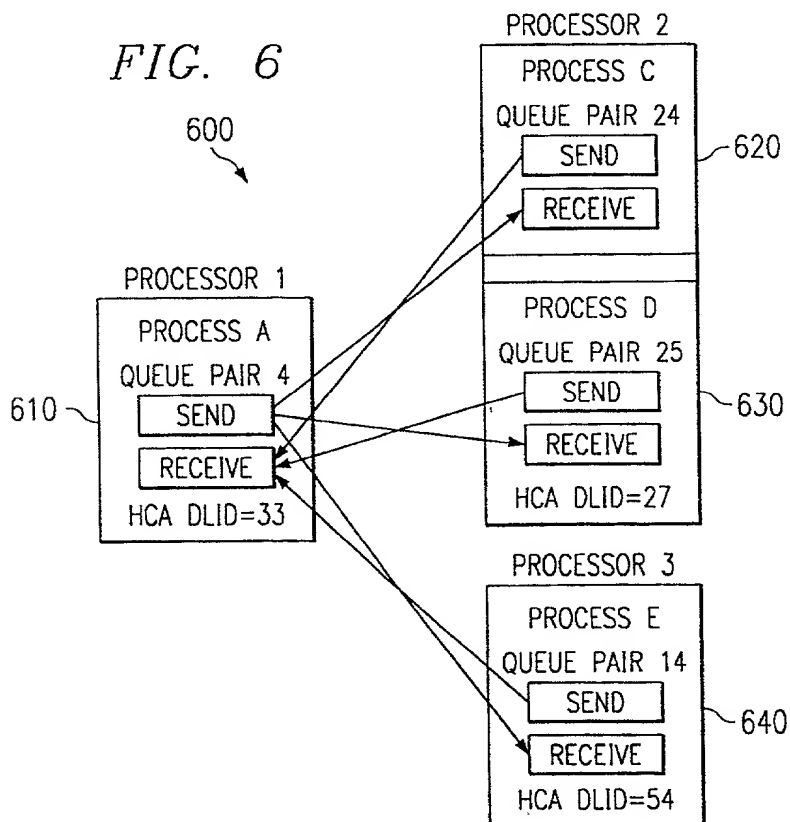


FIG. 7

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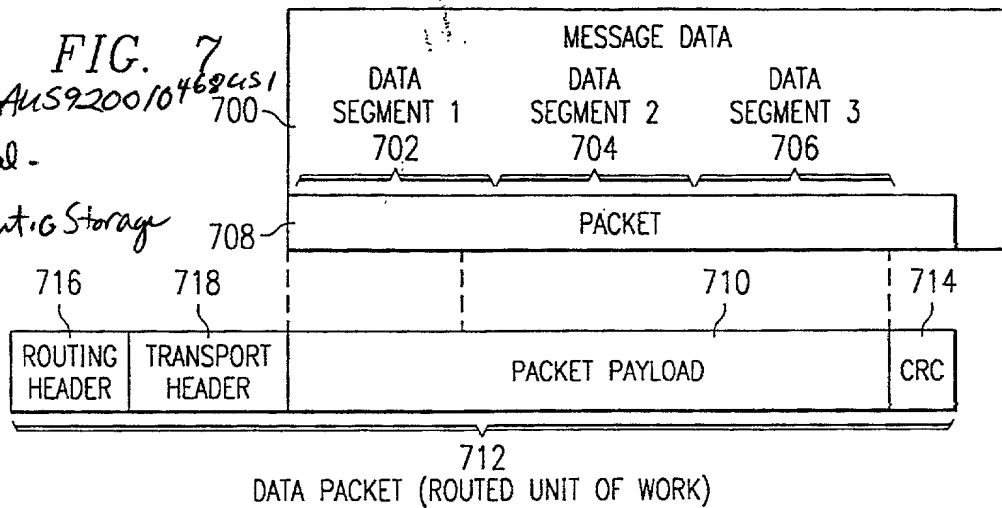
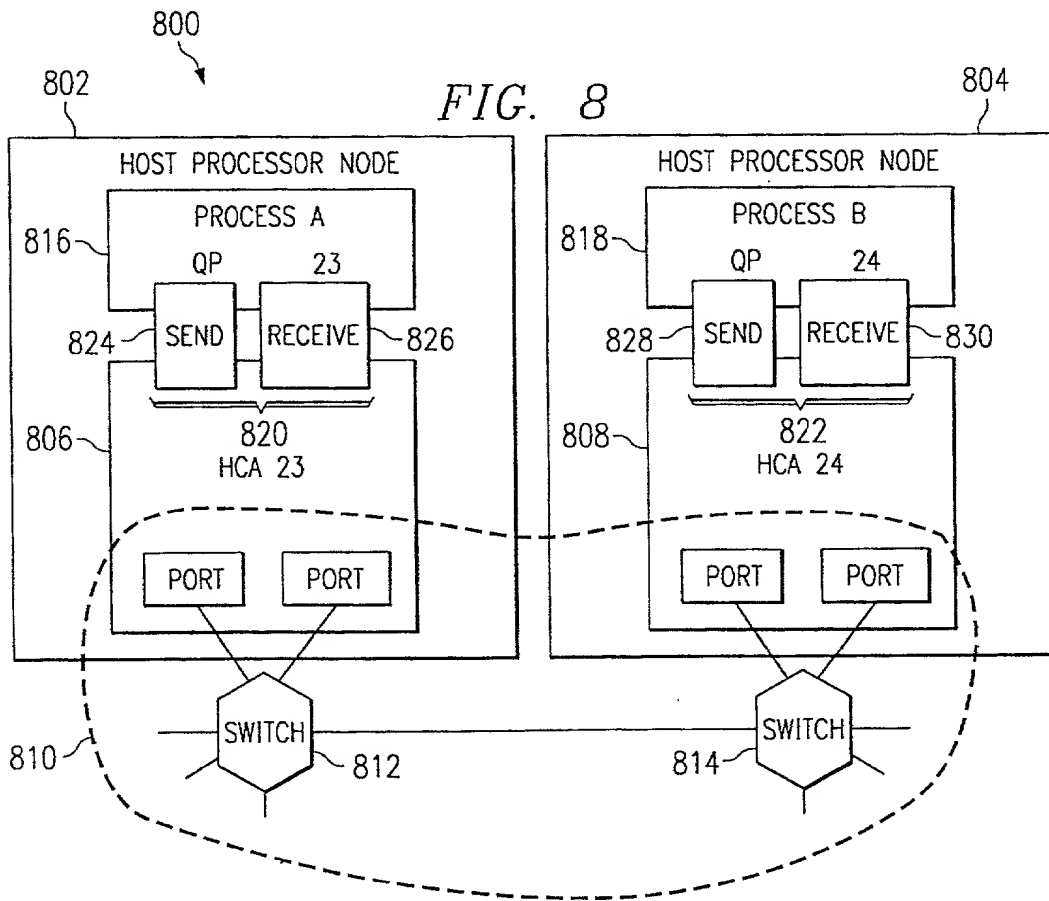


FIG. 8



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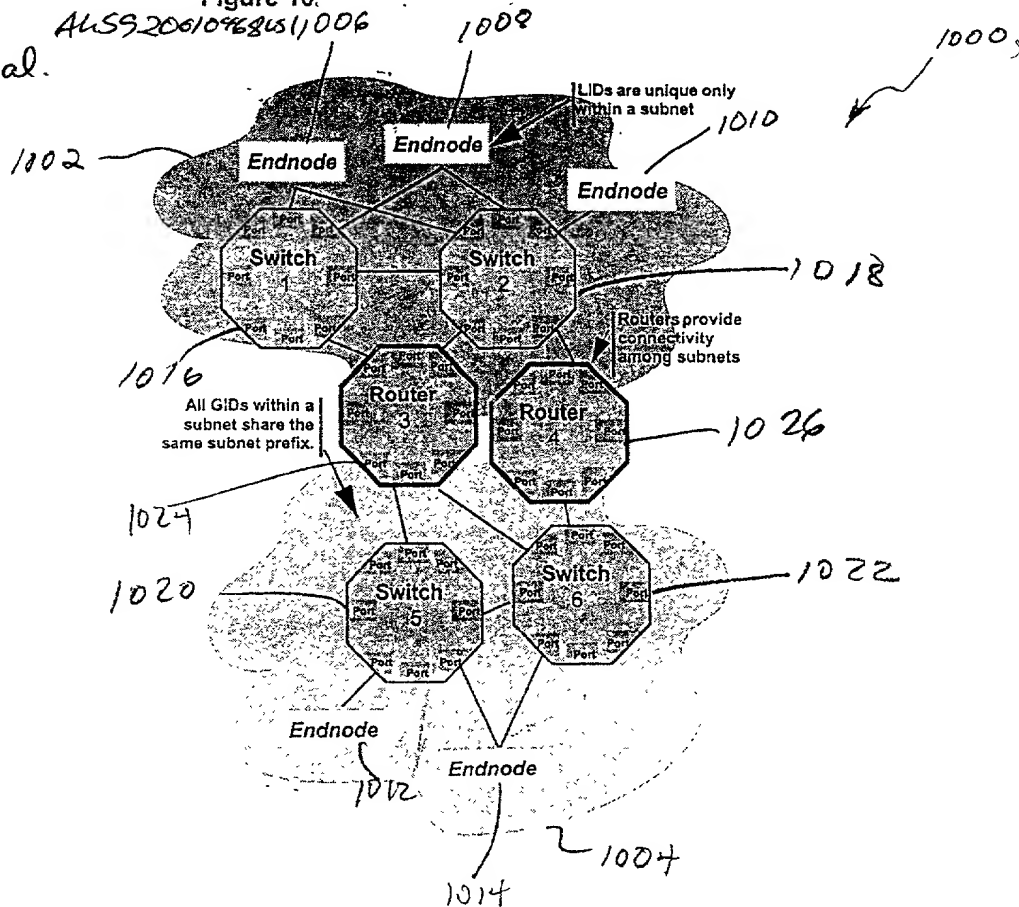
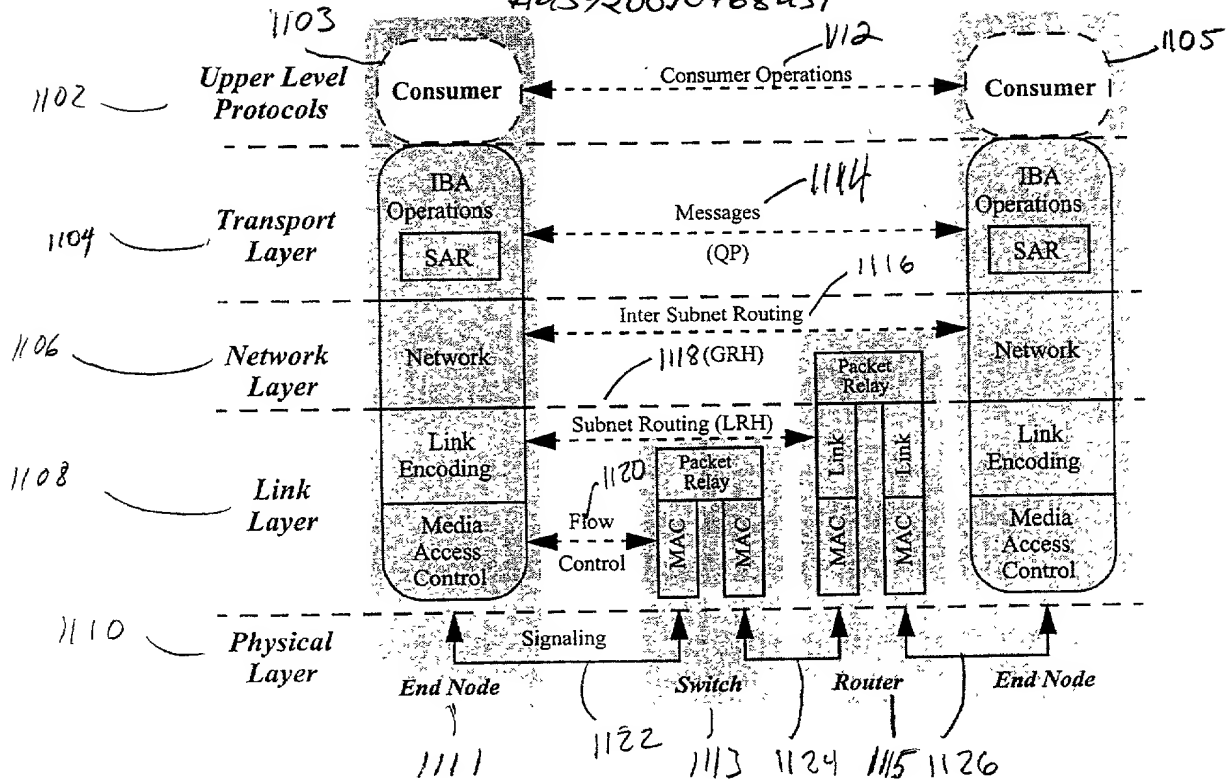


Fig. 11
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Figure 12

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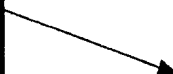
The Communication Management REQuest message is used to initiate the connection. The REQ, REP, and RTU contain a private data field. The present invention uses the private data field to communicate I/O consumer information, this includes:

- The lease period required by a service (e.g. for 1 or more connection)
- The resources required by a service (e.g. number of connections, number of QPs, capacity of read cache buffer space, capacity of fast write buffer space, QP depth, etc.)
- The address of request and response memory queues.

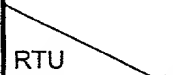
Communication Management ReadyToUse message is used to accept the passive side's REP. If the passive side's private data presented settings that are unacceptable to the active side (e.g. lease period is shorter than the active side's policy), then the active side can send a REJect message as a response to the passive side's REP.

Active Side Passive Side

REQ
(Private Data)



REP
or REJ
(Private Data)



RTU
or REJ
(Private Data)



The Communication Management REPLY message is used to accept a connection. Alternatively, a REJ can be used to propose alternate settings (e.g. a shorter lease period), through the private data of the REJ.

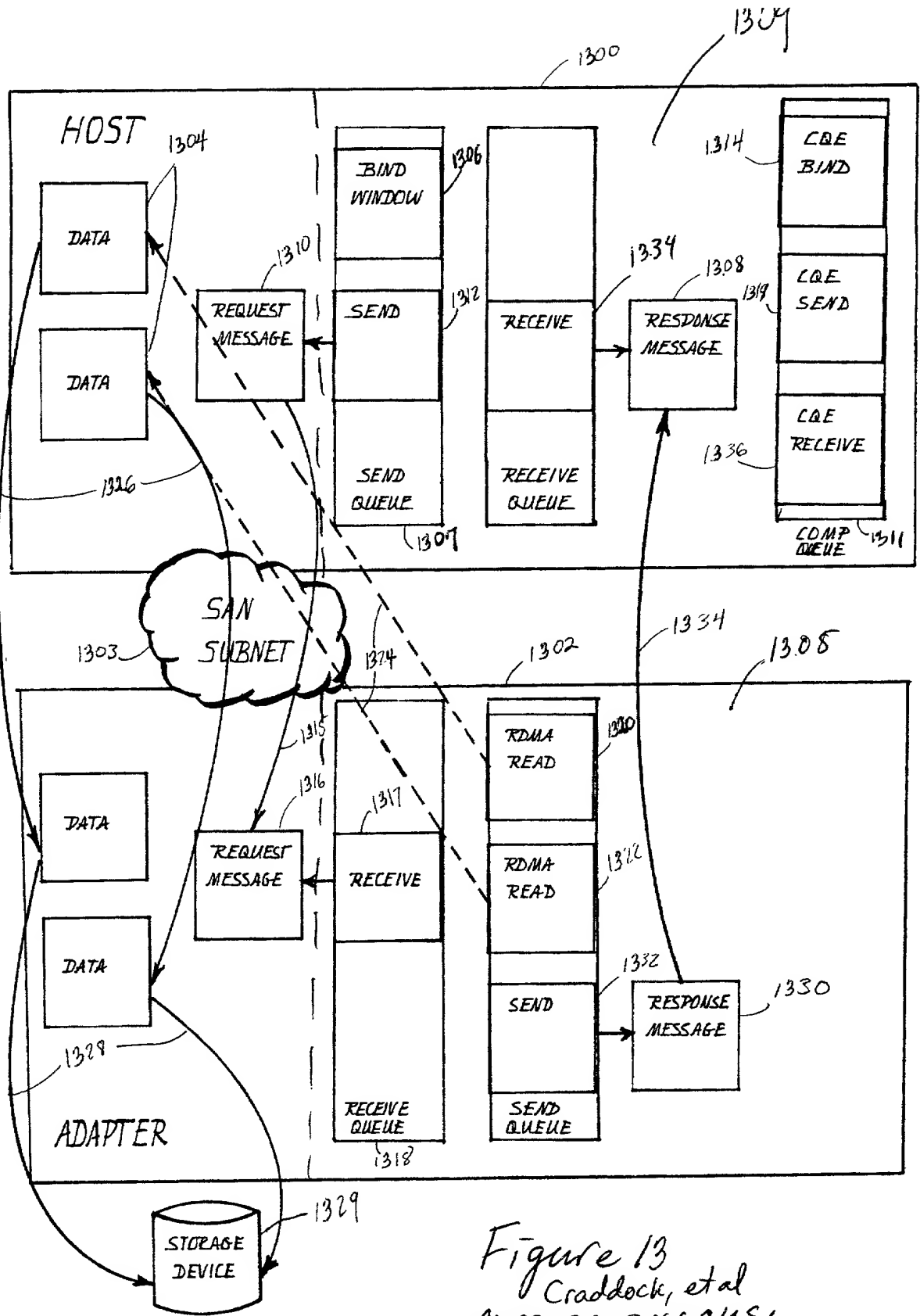


Figure 13
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Figure 14
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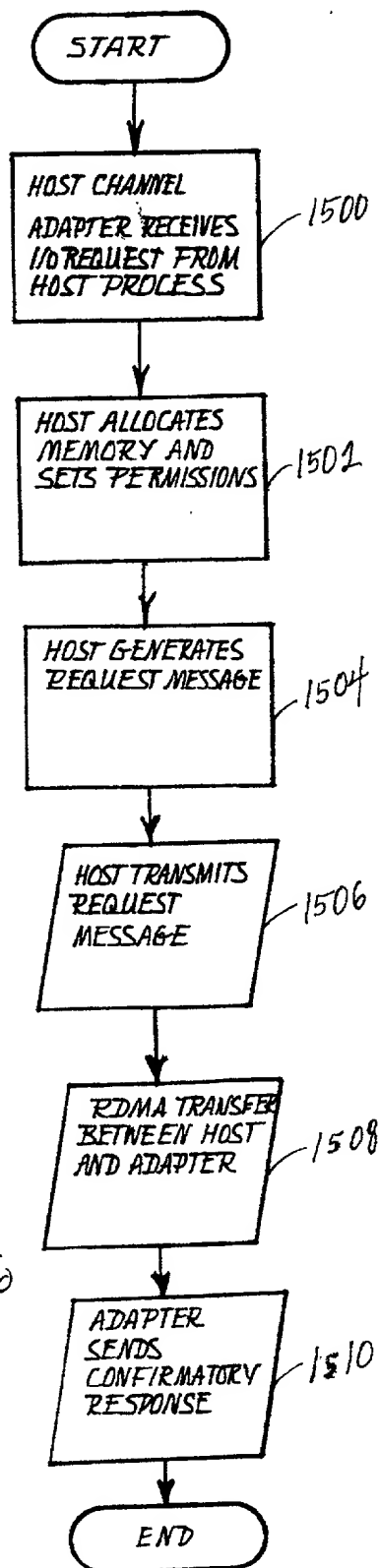


FIGURE 15
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